General Chemistry
Immunodiagnostics
Centrifugation
Disease Management
Clinical Research
Cellular Analysis
Hematology
Flow Cytometry
Hemostasis
Lab Automation
Data Management
Primary Care

# How Can You Enhance Your Specialty Testing Performance?

## SYNCHRON CX® 4 PRO

Equipped with the SYNCHRON CX®4 PRO — which includes many of today's most advanced and automated technologies — your laboratory can improve its specialty testing process dramatically. The SYNCHRON CX®4 PRO consolidates DATs, TDMs, STAT chemistries, proteins and other specialty tests, such as thyroid, HbA1c and lipids, into one, easy-to-use workstation.

### Increase accuracy and analytical efficiency with:

- Automatic clot detection and correction for uninterrupted workflow
- Automatic checking of serum indices (hemolysis, icterus, lipemia) for high-quality test results and process step reduction
- On-board auto-dilution (for immunoproteins and urine chemistries) for reduced sample handling
- Flat-panel monitor for improved operator viewing and enhanced ease-of-use
- Advanced modem diagnostics to minimize service needs
- Throughput up to 225 tests per hour for fast sample turnaround
- 24 on-board chemistries for workstation consolidation

BECKMAN COULTER®

# SYNCHRON CX®4 PRO Specifications

### Measurement Principles
Immuno-turbidimetric
CEDIA*
Bidentate
Enzyme Immunoassay
Rate
Endpoint

### Throughput
225 tests/hour maximum

### Reaction Carousel Temperature
37°C (± 0.1°C)

### Reagent Cartridge Compartment Temperature
+2°C to +8°C

### Reagent Capacity
24 methods simultaneously on board

### Bar Code Reagent Features
Automatic tracking of:
- Available tests
- Expiration date
- Lot number
- Calibration expiration

### Sample Management/Capacity
63 samples in STANDBY mode, continuous loading (56 in STAT mode)

Bar-code symbologies:
- Code 39 (Code 3 of 9, or SD-3)
- Code 128 (USD-6)
- Interleaved 2 of 5 (USD-1)
- Codabar (USD-4)

Sample volume as low as 3 µL

**Sample Types:**
- Serum
- Plasma
- Urine
- CSF
- Whole Blood Hemolysate

### Sample Container Sizes
Primary tubes:
- 13 x 75 mm (5 mL)
- 13 x 100 mm (7 mL)
- 16 x 75 mm (7 mL)
- 16 x 100 mm (10 mL)

Sample cups:
- 0.5 mL, 2.0 mL

SYNCHRON Microtubes™

### Reporting Units Available
ng/mL, µg/mL,
ng/dL, µg/dL, mg/dL, g/dL,
mg/L, µg/L, g/L, nmol/L, µmol/L, mmol/L
mEq/L, KU/L
nKat/L, µKat/L
lU/mL, U/mL, µlU/mL, mlU/L, mlU/mL
U/L, lU/L, mA, mA/min
%, Ku/u

### Communication Modes
Unidirectional, bidirectional, bidirectional with true Host Query
RS-232C Serial

### Power and Environmental Requirements
Analyzer:
- 200 to 240 VAC
- 50/60 Hz
- 20A Nema L6-20R twistlock connector

Computer console and monitor:
- 100 to 240 VAC
- 50/60 Hzl

Printer:
- 120 or 240 VAC
- 50/60 Hz

Heat output:
- 4,972 BTU/hour

Ambient operating environment:
- Ambient temperature: +18°C to +30°C
- Relative humidity: 30 to 85%, non-condensing

### Dimensions and Weight
Analyzer only:
- Height: 69 inches (176 cm)
- Length: 47 inches (120 cm)
- Depth: 30 inches (77 cm)
- Weight: 785 pounds (356 kg)

### Detection Systems
Multi-wavelength, diffraction grating spectrophotometer
Light source: Pulsed xenon lamp
Available wavelengths: 340, 380, 410, 470, 520, 560, 600, 650, 670, 700 nm

### Chemistry Menu Capacity
> 90 preprogrammed, bar-coded methods currently available
On-board data storage for 100 user-defined methods

### Calibration Types
Single-point, 2-point, multi-point
Linear and non-linear models (chemistry method dependent)

### System Console Computer
3.5 inch, 1.44 MB floppy diskette
≥ 2.0 GB Hard disk drive
128 MB RAM
CD-ROM

### Water Requirements
Deionized water, NCCLS Type II
(Total Bacteria Count <10 cfu)

### Drain Requirements
6.9 L/hour minimum continuous flow rate
< 39 inches (97.5 cm) above the floor
1.5 inches (3.81 cm) internal diameter

* CEDIA is a registered trademark of Roche Diagnostics.

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